WHAT IS CLAIMED IS:

1. A process for drying or concentrating with low or no degradation a biodegradable polymer in a solution or a biomass comprising submitting said solution or biomass to microwaves for a period of time sufficient to reduce solvent concentration from said solution or biomass in proportions of between 0.0001% to 100%.

2. A process of claim 1, wherein said polymer is synthetic or natural polymer.

3. The process of claim 1, wherein said polymer is selected from the group consisting of polyester, polyalcohol, polysaccharide, polyacid, or a mixture or a copolymer thereof.

4. The process of claim 3, wherein said polyester is selected from the group consisting of polyhydroxyalkanoate, polycaprolactone, polylactic acid, polyglycolic acid, poly(lactic-co-glycolic) acid, poly(succinic acid), or a mixture or a copolymers thereof.

5. The process of claim 3, wherein said polyalcohol is selected from poly(vinyl alcohol), cellulose, or derivatives thereof.

6. The process of claim 1, wherein said microwaves are between about 915 to 2450 MHz.

7. The process of claim 1, wherein said microwaves produced are between about 100 to 1500 Watts.

8. The process of claim 1, wherein said drying or concentrating is performed with less than 5% degradation of said biopolymer.

9. The process of claim 1, wherein said solvent is water or a polar organic solvent.

10. The process of claim 4, wherein said polyhydroxyalkanoate is selected from the group consisting of poly-3-hydroxybutyrate, poly-3-hydroxyvalerate, poly-3-hydroxypentanoate, poly-3-hydroxyhexanoate, poly-3-hydroxyheptanoate, poly-3-hydroxyoctanoate, poly-3-hydroxynonanoate, poly-3-hydroxydecanoate, poly-3-hydroxydodecanoate, poly-4-hydroxybutyrate, and a medium chain length PHA, or a mixture or a copolymer thereof.

11. The process of claim 9, wherein said polar organic solvent is selected from the group consisting of alcohol, amine, amide, halogenous, cyano, aldehyde, acid, cetone, ester, thiol, and sulfoxide.

12. The process of claim 1, wherein said degradation is at level between 0 to 25%.